

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 77-51

WASTE DISCHARGE REQUIREMENTS FOR:

BORDEN CHEMICAL, FREMONT PLANT
LAND DISPOSAL, ALAMEDA COUNTY

The California Regional Water Quality Control Board San Francisco Bay Region,
(hereinafter called the Board finds that:

1. Borden Chemical (hereinafter called the discharger), a division of Borden, Incorporated, submitted a report of waste discharge dated August 23, 1976, for its Fremont facility.
2. The discharger currently manufactures adhesives and other chemical products and creates wastes consisting of process water, adhesives, resins, inorganic salts, and phenol and urea compounds. Process water is currently discharged to a sanitary sewer. The other wastes are trucked to a Class I solid waste disposal site.
3. The discharger proposes to construct a 0.83 acre, lined evaporation pond in SE $\frac{1}{4}$ NE $\frac{1}{4}$ S8, R1E, T5S MDB&M at their Fremont plant. The pond will accept 2,300 gallons per day of plant waste containing resins, inorganic salts, and phenol and urea compounds. No domestic wastes will be discharged to the pond.
4. There will be no hydraulic continuity between the contents of the pond and underlying groundwater.
5. The Board adopted the Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on April 8, 1975, and this Order implements the water quality objectives stated in the Basin Plan.
6. Groundwaters in the area of the discharger's facility are used for:
 - a. irrigation
 - b. industrial water supply
 - c. domestic water supply
7. Land used within 1000 feet of the discharge site is used for various industrial purposes.
8. This project meets the criteria for a Class 4 exemption pursuant to Section 15102 of the California Administrative Code (State EIR Guidelines).

9. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
10. The Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Borden Chemical and its successors or assigns shall comply with the following criteria:

A. Discharge Prohibitions

1. Discharge of process wastewater, domestic wastewater, or contents of the evaporation pond to waters or groundwaters of the State is prohibited.

B. Waste Disposal Specifications

1. No domestic wastes shall be discharged to the evaporation pond.
2. Waste material shall be confined to the designated evaporation pond shown on Attachment "A". Wastes shall not be disposed of in such a manner that it can be carried from the disposal site and discharged into waters of the State.
3. The evaporation pond shall have a minimum freeboard of two feet at all times.
4. All waste material shall be removed to an approved Class I or II-1 disposal site prior to discontinuing use of the evaporation pond.

C. Leachate Specifications

1. The evaporation pond shall be protected from washout or erosion, and from inundations occurring as the result of a flood having a recurrence frequency of 100 years.
2. Vertical and lateral hydraulic continuity with groundwaters shall be prevented by the presence of a natural clay barrier of at least 5 feet in thickness and a permeability of 10^{-6} cm/sec or less on the bottom and sides of disposal areas. If such a natural condition does not exist, an artificial barrier shall be constructed to meet the above specifications.

D. Provisions

1. Neither the disposal nor the containment of pollutants shall create a pollution or nuisance as defined in the California Water Code.
2. The pond area shall be properly fenced to deny unauthorized access and minimize public hazard.
3. The discharger shall comply with the following time schedule to assure compliance with this Order:

<u>Task</u>	<u>Completion Date</u>	<u>Report of Compliance Due</u>
a. Submit technical report outlining plans for pond construction	August 1, 1977	August 15, 1977
b. Start construction of pond	September 1, 1977	September 15, 1977
c. Submit a preventive (fail safe), contingency (cleanup) and continuous operations report pursuant to Board Resolution 74-10	-	October 15, 1977
d. Complete pond construc- tion	December 1, 1977	December 15, 1977
e. Full compliance with this Order	January 1, 1978	January 1, 1978

This discharger shall submit a report to the Board on or before each compliance report date, detailing his compliance or noncompliance with the specific schedule date and task. If noncompliance is being reported, the reasons for such noncompliance shall be stated, plus an estimate of the date when the discharger will be in compliance. The discharger shall notify the Board by letter when he has returned to compliance with the time schedule.

4. This Order includes items 1, 3, 5, 6, and 7 of the attached "Reporting Requirements" dated August 8, 1973.
5. This Order includes items 1, 2, 4, 5, 6, 7, 8, and 10 of the attached "Standard Provisions" dated November 20, 1974.
6. The discharger shall submit to the Executive Officer a contingency plan for the continuous operation of facilities for the collection, treatment and disposal of waste pursuant to Regional Board Resolution 74-10.
7. Ninety (90) days prior to discontinuing the use of this site for waste disposal the discharger shall submit a technical report to the Board describing the methods and controls to be used to assure protection of the quality of surface and groundwaters of the area during final operations and with any proposed subsequent use of the land. This report shall be prepared by or under the supervision of a registered engineer or a certified engineering geologist. The method used to close the site and maintain protection of the quality of surface and groundwater shall comply with waste discharge requirements established by the Regional Board.
8. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge and water applied to this property during the subsequent use of the land for other purposes.

9. The discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.
10. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on May 17, 1977.

FRED H. DIERKER
Executive Officer

Attachments:

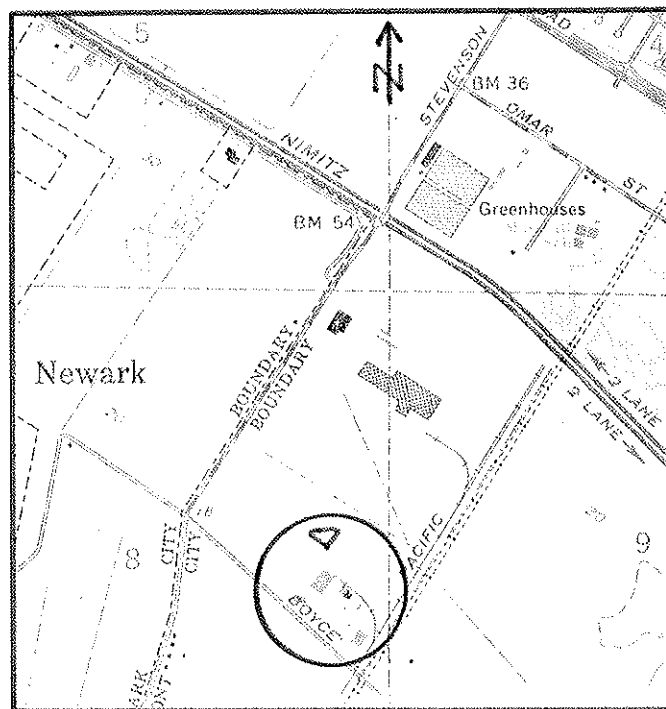
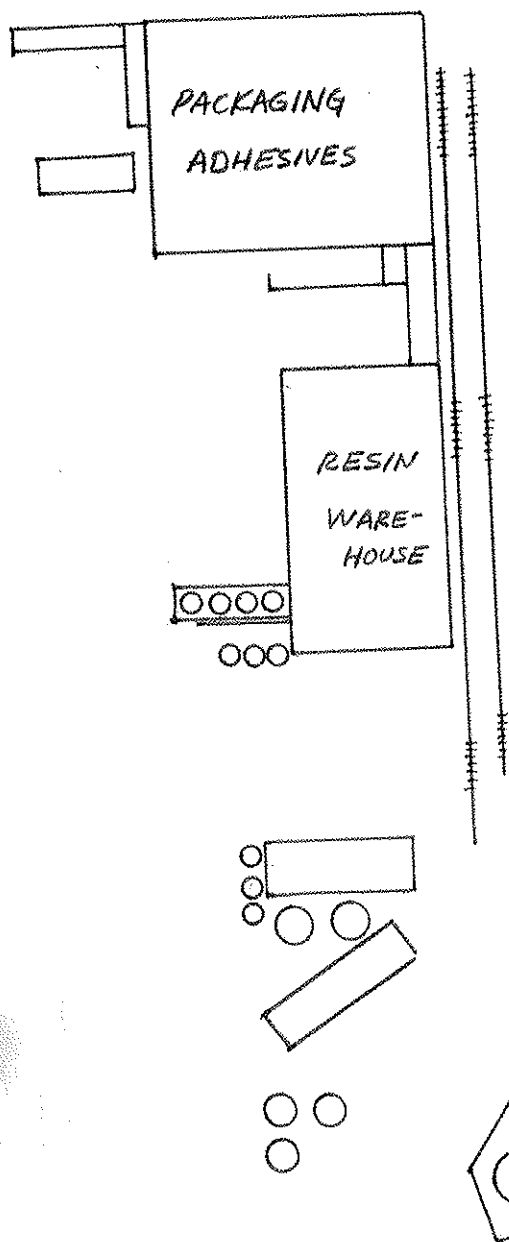
Attachment A (Map)
Reporting Requirements 8/8/73
Standard Provisions 11/20/74
Resolution No. 74-10
Self-Monitoring Program

PROPERTY LINE

Regional Water Quality Control Board
San Francisco Bay Region

BORDEN CHEMICAL
FREMONT, CA FACILITY
ATTACHMENT "A"

EVAPORATION
POND



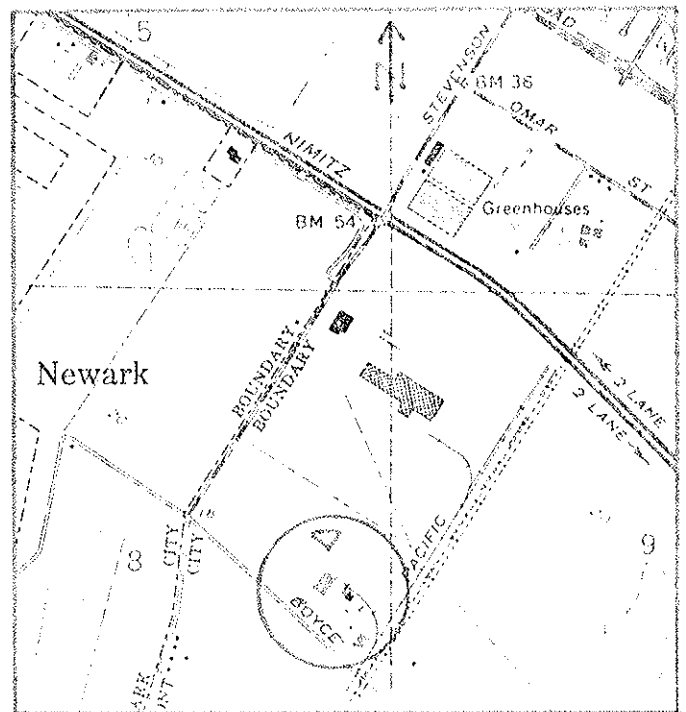
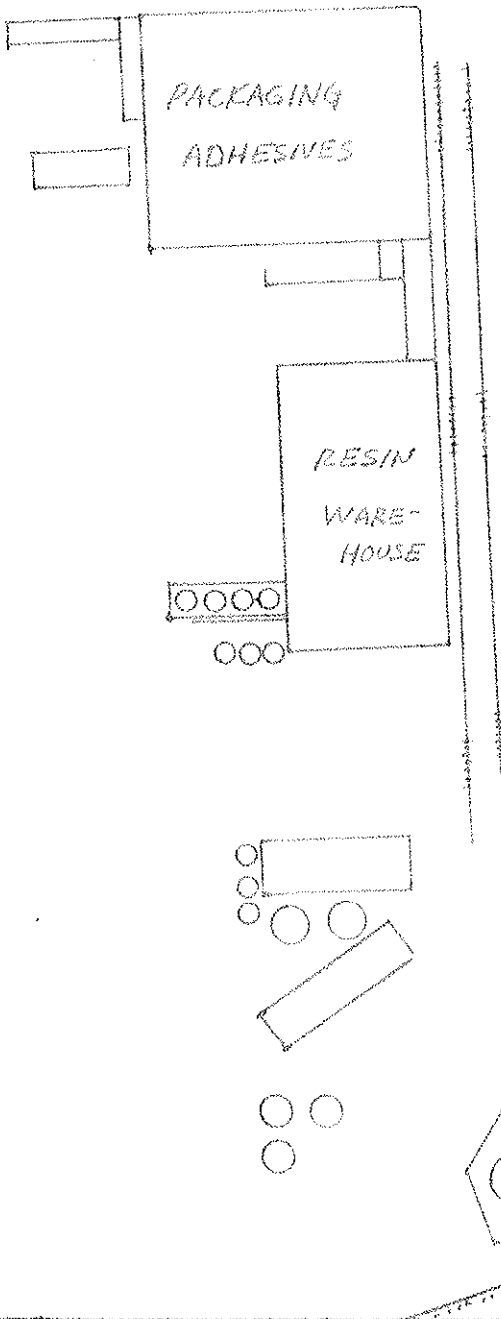
PROPERTY LINE

Regional Water Quality Control Board
San Francisco Bay Region

BORDEN CHEMICAL
FREMONT, CA FACILITY

ATTACHMENT "A"

EVAPORATION
POND



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Borden Chemical

Fremont Disposal Pond

Alameda County

ORDER NO. 77-51

CONSISTS OF

PART A, dated 7/74

AND

PART B, dated 5/17/77

PART B

DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSES AND

I. DESCRIPTION OF SAMPLING STATIONS

<u>Station</u>	<u>Description</u>
O-1 thru O-'n'	Located at the corners of the pond.
G-1	Monitoring well located up-gradient of the disposal pond, to a depth which intersects first available groundwater.
G-2	Monitoring well located down-gradient of the disposal pond, to a depth which intersects first available groundwater.

(Note: Location and installation of G-1 and G-2 shall be the responsibility of the discharger and shall be subject to approval by the Board.)

II. SCHEDULE OF SAMPLING AND ANALYSIS

<u>Station</u>	<u>Sample Frequency</u>	<u>Analyses</u>	<u>Units</u>
a. O-1 thru O-'n'	Quarterly	Freeboard	feet
b.	Quarterly	Inspection of pond perimeter: status of structure integrity. (C.5.d of Part A)	"
c. O-1 thru O-'n'	Annually	pH	"
d. "	"	Chemical Oxygen Demand	mg/l
e. "	"	Toxicity (96 hr bioassay)	% survival TL _m
f. "	"	Phenols	mg/l
g. "	"	Urea	mg/l

h.	G-1 G-2	Semi-Annually	pH	-
i.	"	"	Chemical Oxygen Demand	mg/l
j.	"	"	Toxicity (96 hr bioassay)	% Survival TL _m
k.	"	"	Phenols	mg/l
l.	"	"	Urea	mg/l
m.	"	"	Total Filterable Residue	mg/l

All samples shall be grab samples. Results of analysis for annual sampling shall be reported to the Board by January 30 of every year during the pond's existence, and results for semi-annual sampling shall be reported by January 30 and July 30 of each year during the pond's existence.

III. MISCELLANEOUS REPORTING

1. Whenever residue is removed from the ponds and is taken to a Class I or II-1 disposal site, the following reports will be submitted to the Regional Board within 30 days:
 - a. After cleanout and prior to refilling the ponds, photographs shall be taken adequate to show the condition of the ponds and the maintenance and integrity of any liner.
 - b. A copy of the State liquid waste hauling report properly completed to include disposal site.

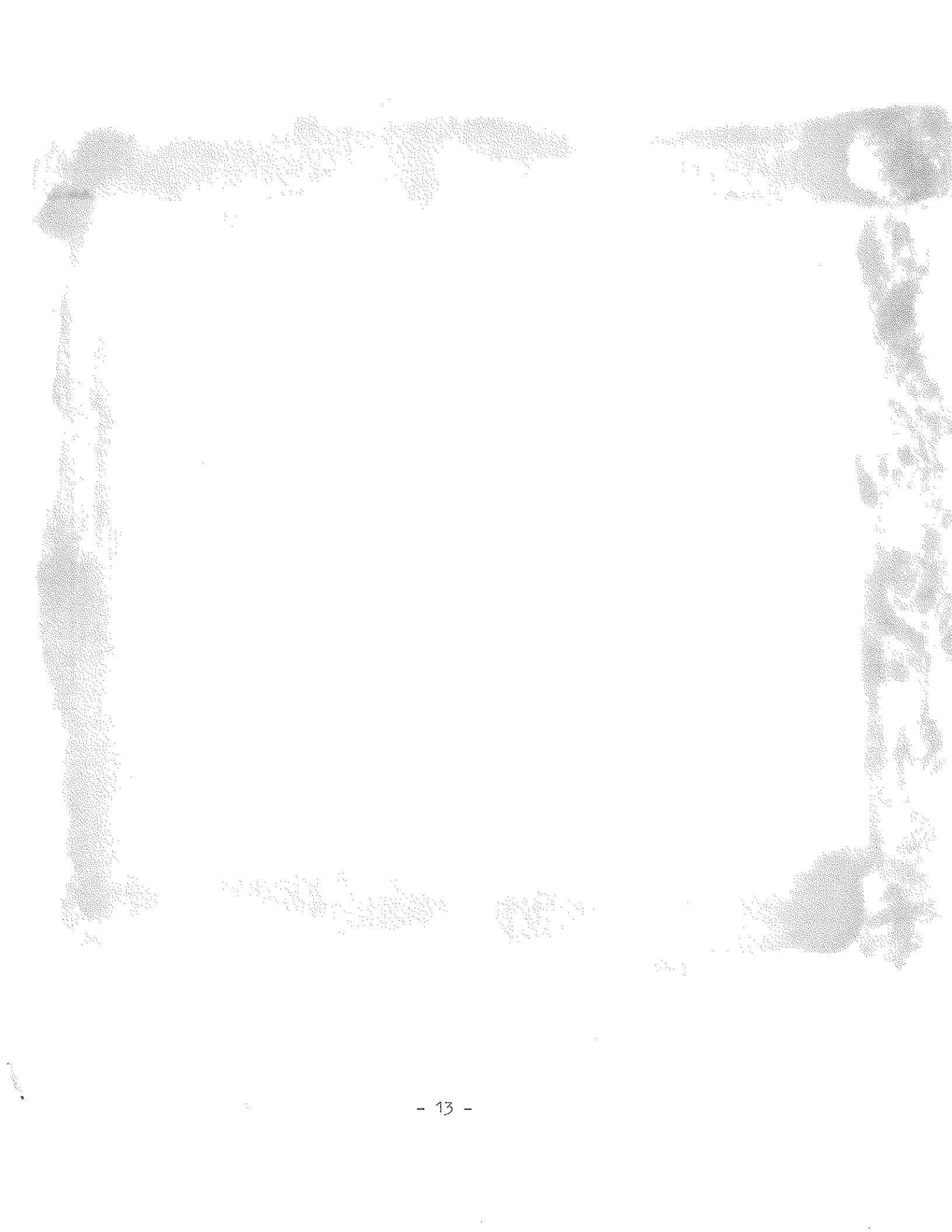
IV. MODIFICATION OF PART "A" DATED 7/74

- A. Exclusions: Paragraphs E.2, and E.4.
- B. Modification: Paragraph F.3.e delete EPA submittal, submit original to Regional Board.

I, Fred H. Dierker, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in the Regional Board Order No. 77-51.
2. Has been ordered in writing by the Executive Officer on May 17, 1977, and becomes effective immediately.
3. May be reviewed at any time subsequent to the effective date upon written notice from either the Executive Officer or the discharger, and will be revised upon written agreement of the Executive Officer and the discharger.

FRED H. DIERKER
Executive Officer



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Borden Chemical

Fremont Disposal Pond

Alameda County

ORDER NO. 77-51

CONSISTS OF

PART A, dated 7/74

AND

PART B , dated 5/17/77
revised 3/ /82

PART B

DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSES AND OBSERVATIONS

I. DESCRIPTION OF SAMPLING STATIONS

<u>Station</u>	<u>Description</u>
0-1 thru 0-'n'	Located at the corners of the pond.
G-2	Monitoring well located up-gradient of the disposal pond, to a depth which intersects first available groundwater.
G-1, G-3	Monitoring well located down-gradient of the disposal pond, to a depth which intersects first available groundwater.

(Note: Location and installation of G-1 and G-2 shall be the responsibility of the discharger and shall be subject to approval by the Board.)

II. SCHEDULE OF SAMPLING AND ANALYSIS

<u>Station</u>	<u>Sample Frequency</u>	<u>Analyses</u>	<u>Units</u>
a. 0-1 thru 0-'n'	Quarterly	Freeboard	feet
b.	Quarterly	Inspection of pond perimeter: status of structure integrity. (C.5.d of <u>Part A</u>)	--
c. 0-1 thru 0-'n'	Annually	pH	--
d. "	"	Chemical Oxygen Demand	mg/l
e. "	"	Phenols	mg/l
f. "	"	Urea	mg/l

The above sample shall be a composite, made up of samples taken at stations 0-1 thru 0-'n'.

g.	G-1 G-2 G-3	Semi-Annually	pH	—
h.	"	"	Chemical Oxygen Demand	mg/l
i.	"	"	Phenols	mg/l
j.	"	"	Urea	mg/l
k.	"	"	Total Filter-able Residue	mg/l

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IV. MODIFICATION OF PART "A" DATED 7/74

- A. Exclusions: Paragraphs E.2, and E.4.
- B. Modification: Paragraph F.3.e delete EPA submittal, submit original to Regional Board.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 77-51.
2. Has been revised by the Executive Officer on the date shown below and becomes effective immediately.
3. May be reviewed at any time upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.



FRED H. DIERKER
Executive Officer

Date Revised 4/7/82